

FIG. 1A

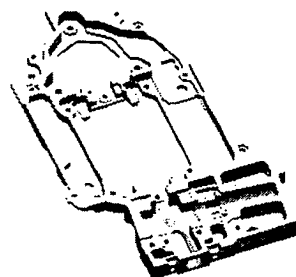


FIG. 1B

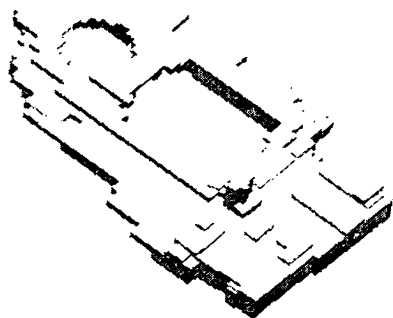


FIG. 1C

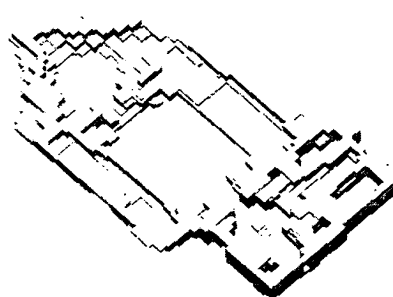


FIG. 1D

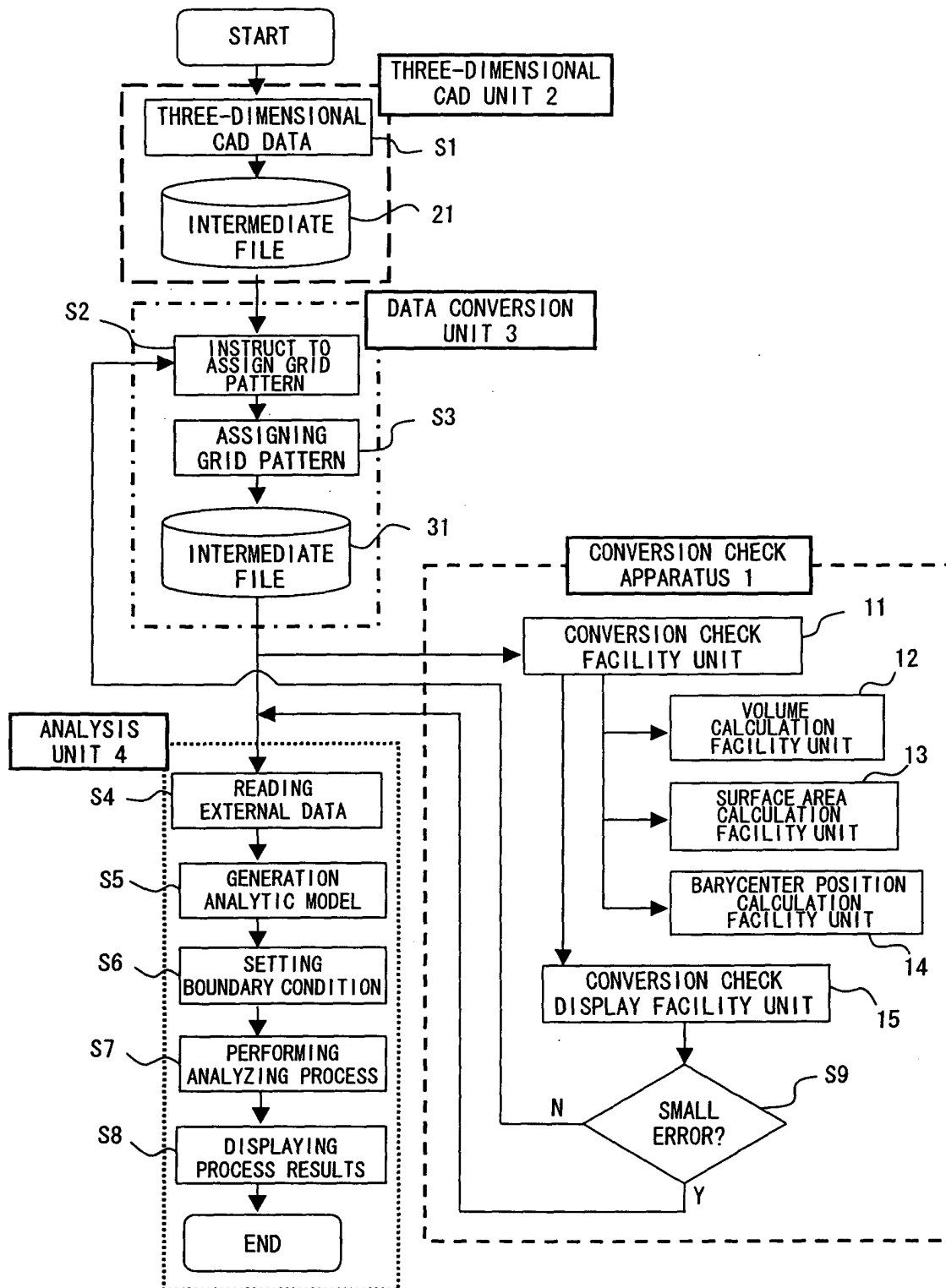


FIG. 2

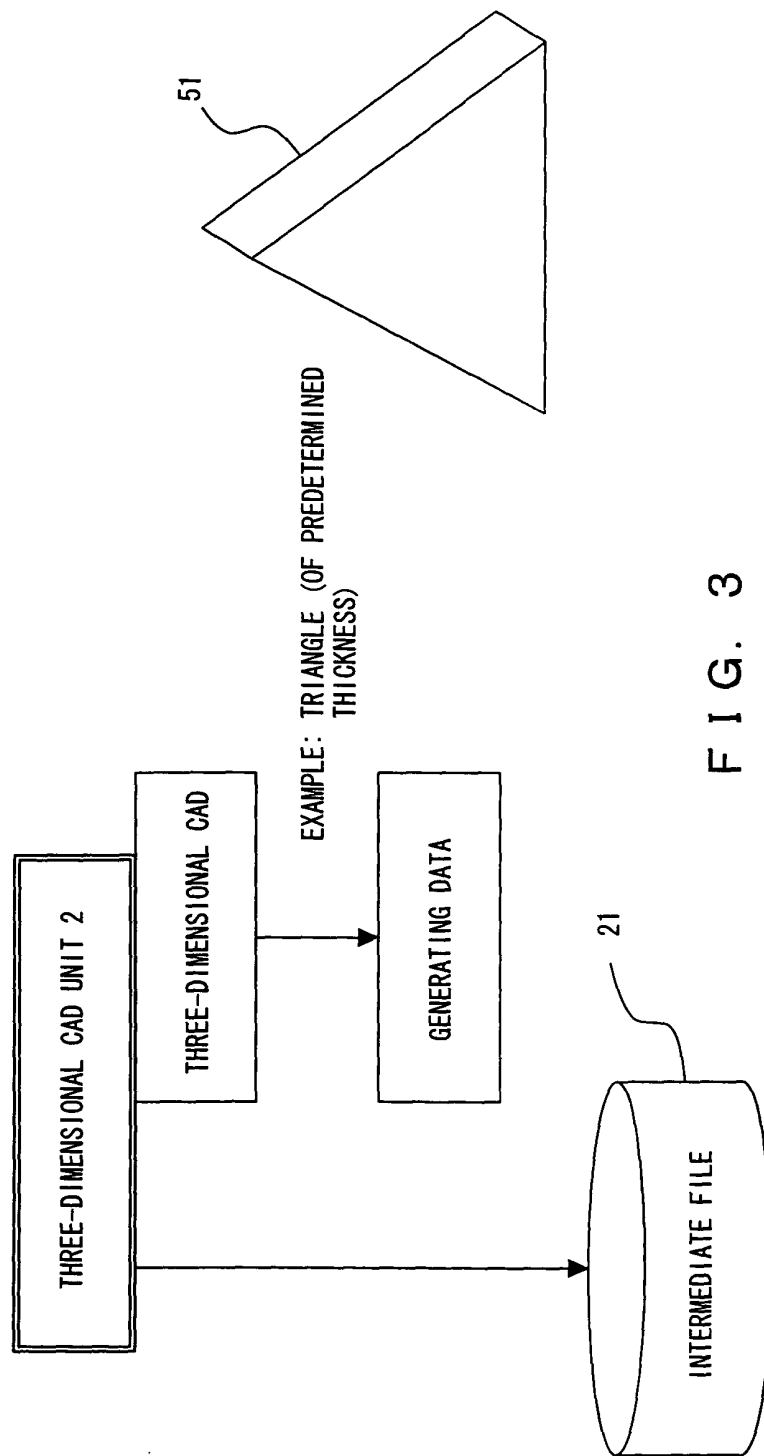


FIG. 3

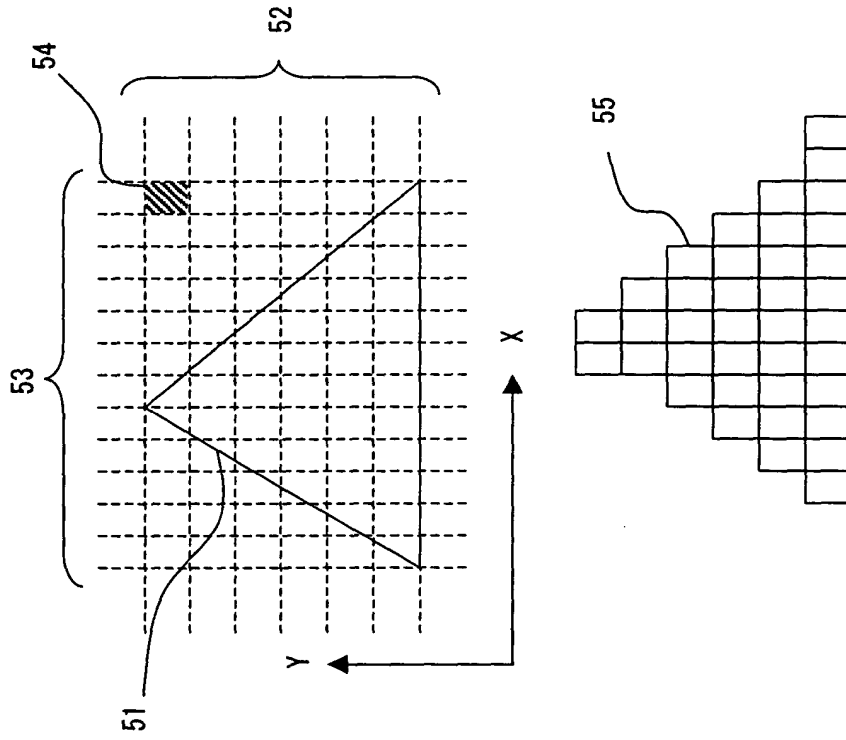
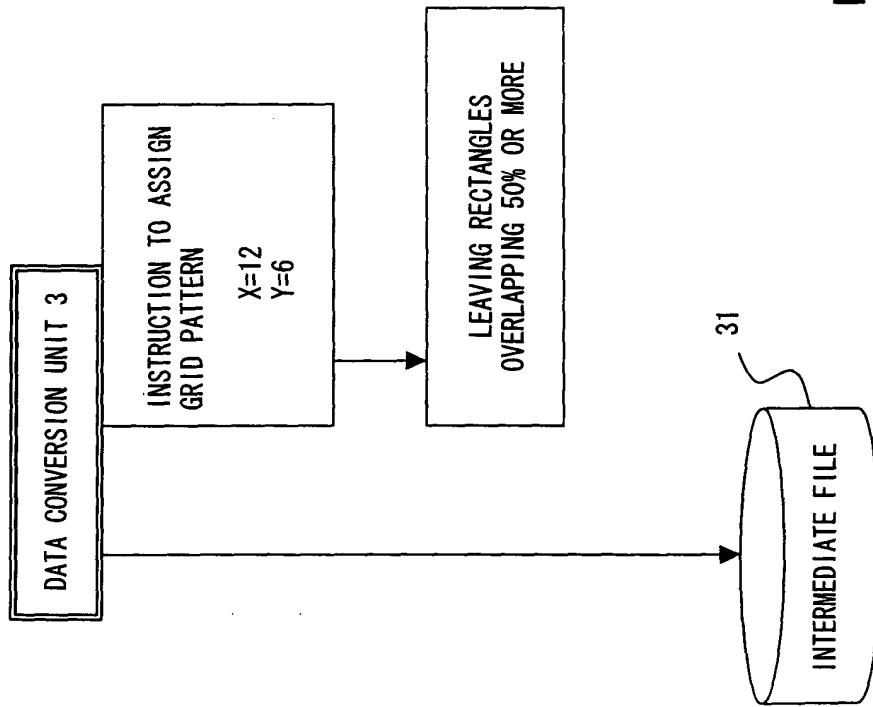


FIG. 4

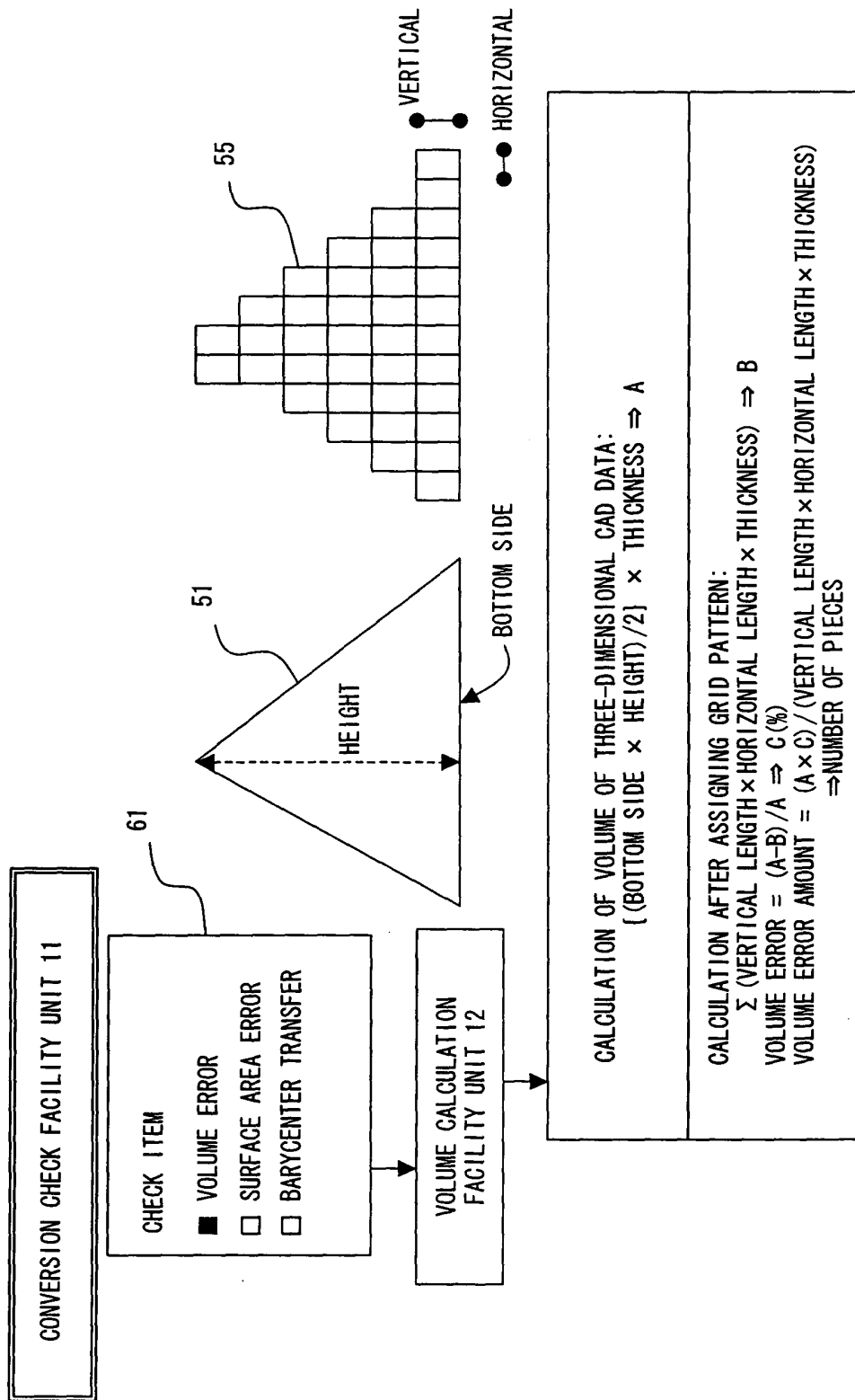


FIG. 5

DATA STRUCTURE AFTER ASSIGNING GRID PATTERN (EXAMPLE)

RECTANGLE NUMBER	COORDINATE NUMBER 1			...	COORDINATE NUMBER 8		
	COORDINATES X1	COORDINATES Y1	COORDINATES Z1		COORDINATES X8	COORDINATES Y8	COORDINATES Z8
1	0.0	0.0	0.0		10.0	10.0	10.0
2	10.0	0.0	0.0		20.0	10.0	10.0
3							
4							
5							
.							
n							

FIG. 6A

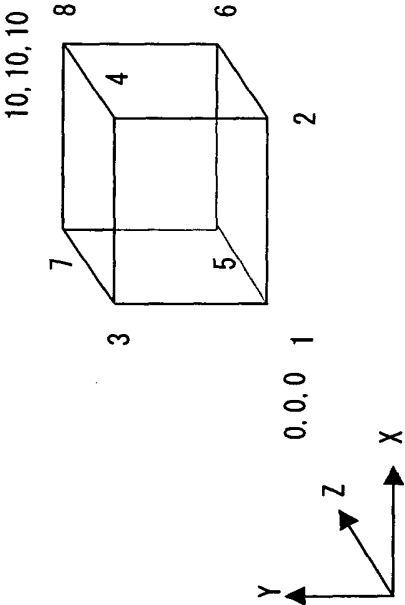


FIG. 6B

SURFACE AREA
CALCULATION FACILITY
UNIT 13

CALCULATION OF SURFACE AREA OF THREE-DIMENSIONAL CAD:
 $(\text{BOTTOM SIDE} \times \text{HEIGHT}) + \sum (\text{EACH SIDE} \times \text{THICKNESS}) \Rightarrow M$

CALCULATION OF SURFACE AREA AFTER ASSIGNING GRID PATTERN:
 $\sum (\text{VERTICAL LENGTH} \times \text{HORIZONTAL LENGTH} \times 2) + \sum (\text{VERTICAL LENGTH} \times \text{THICKNESS}) \times 2 + \sum (\text{THICKNESS} \times \text{HORIZONTAL LENGTH}) - \text{OVERLAPPING SURFACE} \Rightarrow N$

$\text{SURFACE AREA ERROR} = (M - N) / M \Rightarrow 0\%$

$\text{SURFACE AREA ERROR AMOUNT} = (M \times 0) / (\text{VERTICAL LENGTH} \times \text{HORIZONTAL LENGTH}) \Rightarrow \text{NUMBER OF PIECES}$

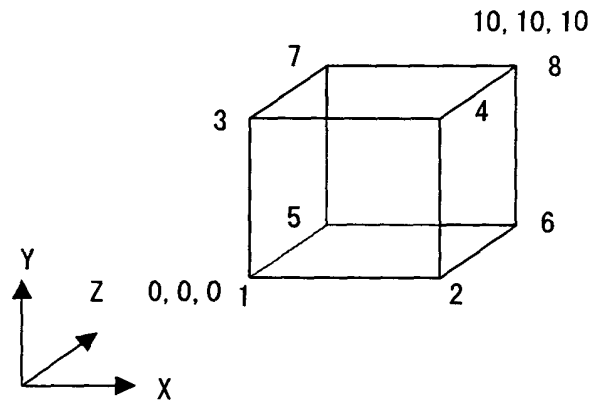
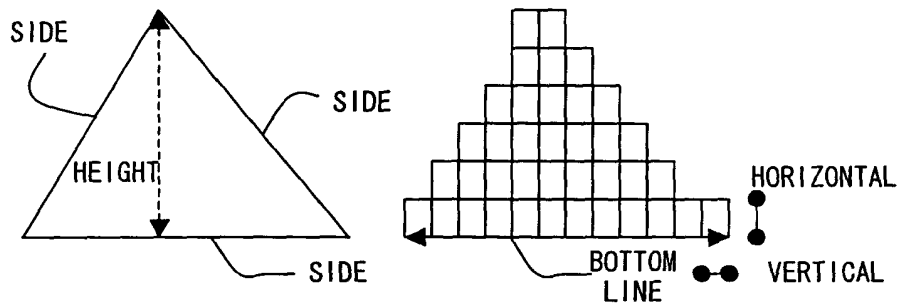
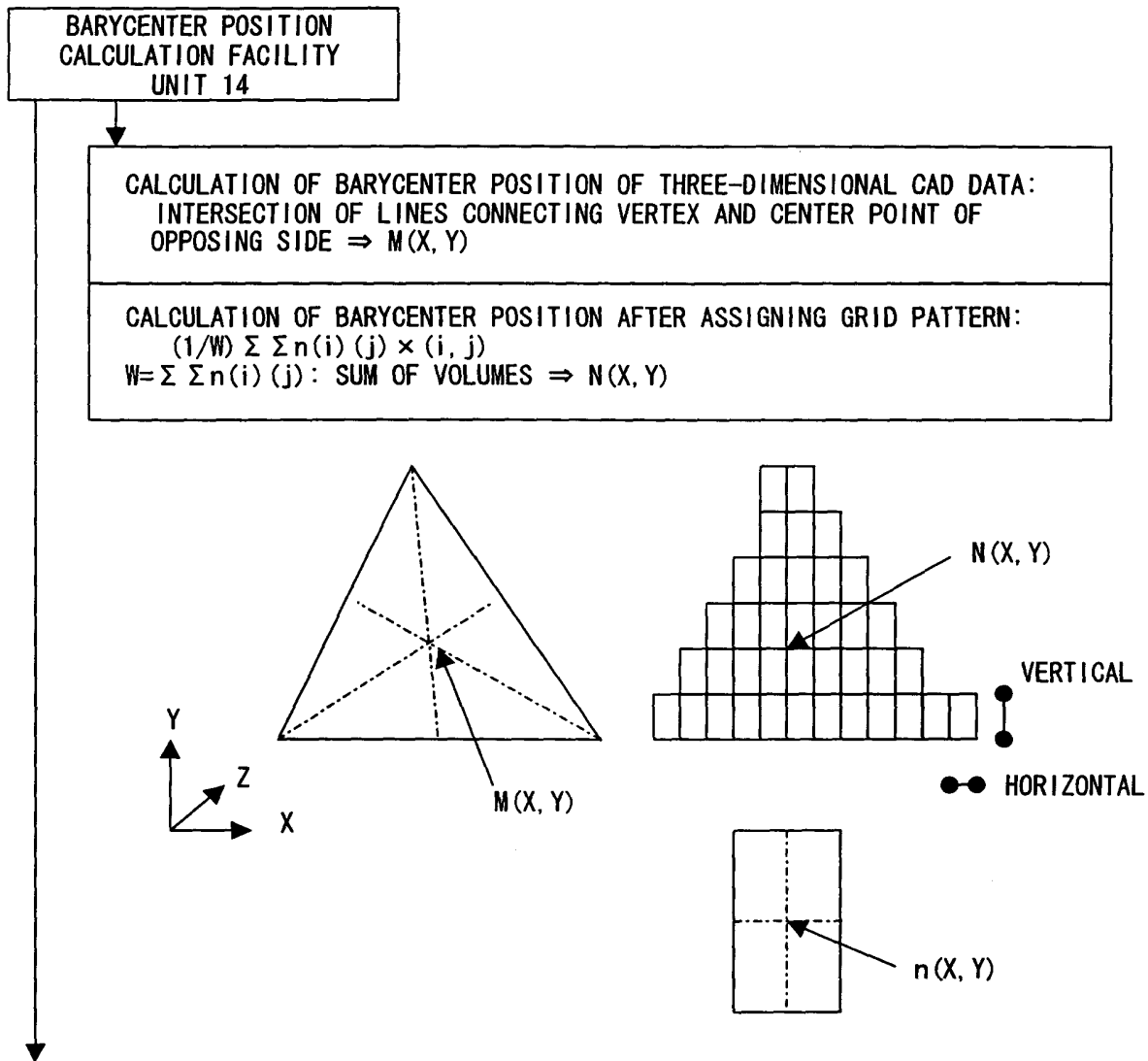


FIG. 7



F I G. 8

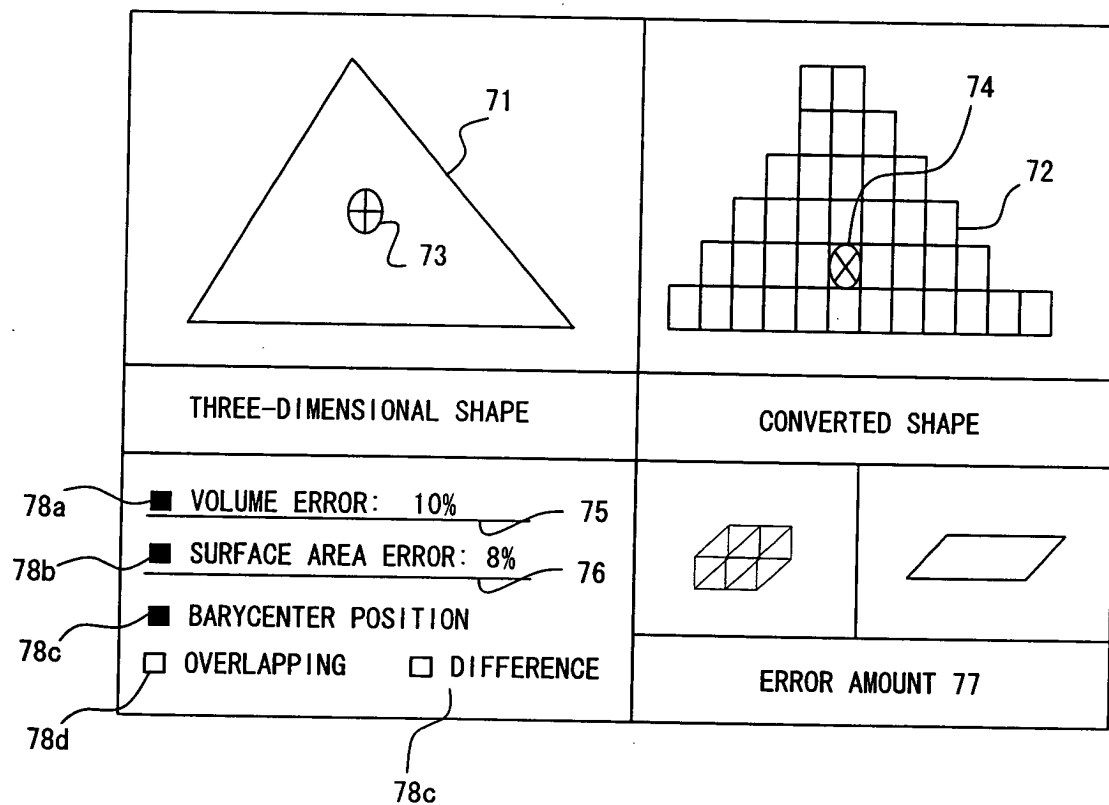
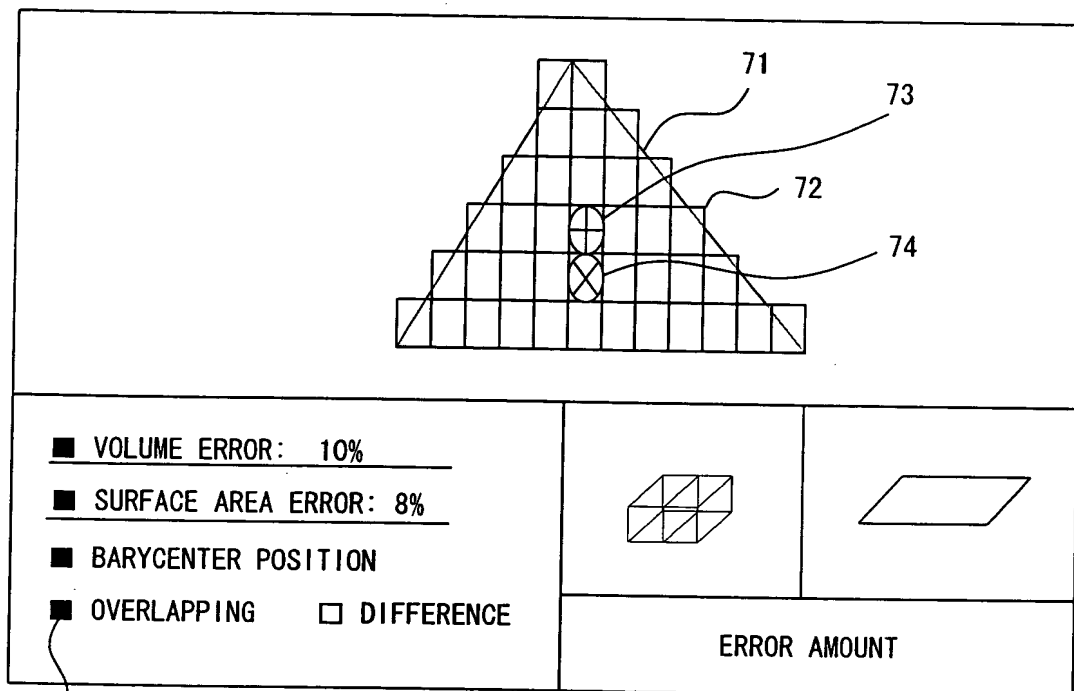


FIG. 9



78d

FIG. 10

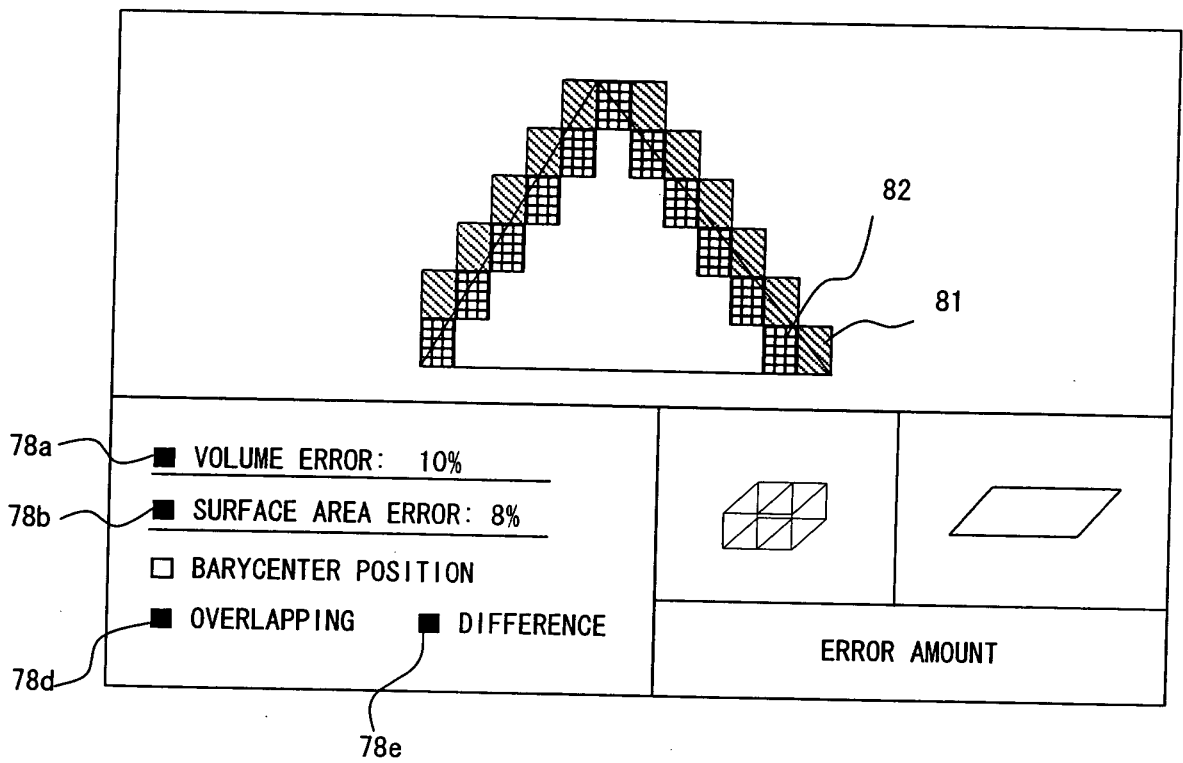


FIG. 11

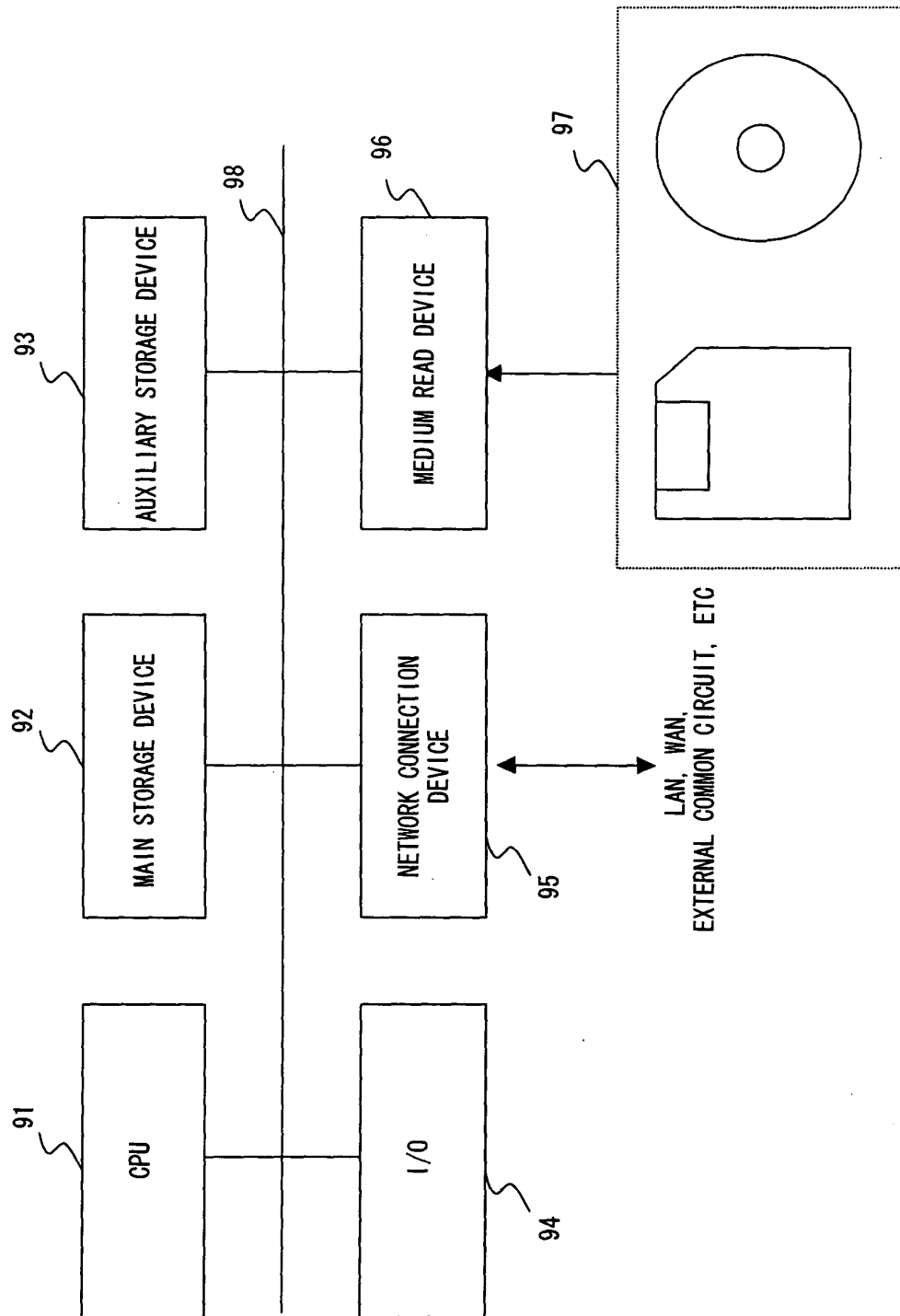


FIG. 12

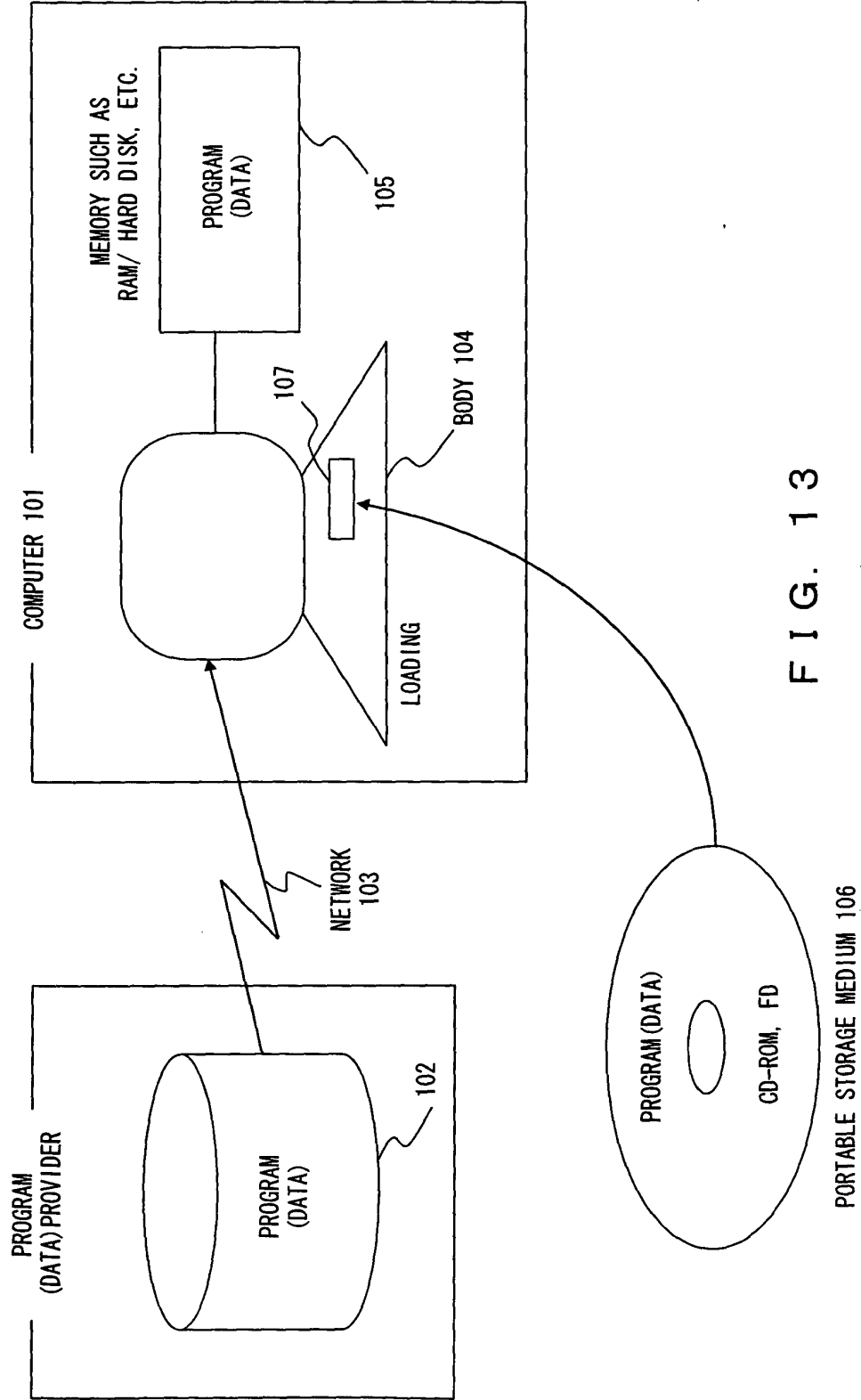


FIG. 13